泰莱微波
Talent Microwave

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# Power Amplifier

## 26.5-40GHz/32dB Gain/31dBm Psat

## Model: TLPA26.5G40G-32-31

TLPA26.5G40G-32-31 is a power amplifier with a typical gain of 32 dB and a nominal Psat of 31 dBm across the frequency range of 26.5 to 40 GHz. The DC power requirement for the amplifier is +12 VDC/1.3 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

### Features:

- Frequency range: 26.5-40GHz
- Gain: 32dB Typ
- Output Power Psat: 31dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency range | 26.5 | | 40 | GHz |
| Gain | 30 | 32 | | dB |
| Gain Flatness | | ±3 | | dB |
| Output P1dB | | 28 | | dBm |
| Output Psat | 30 | 31 | | dBm |
| Input VSWR | | 2 | | :1 |
| Output VSWR | | 2 | | :1 |
| DC Voltage | | +12 | | V DC |
| DC Supply Current | | 1.3 | | A |
| Impedance | | 50 | | Ohms |

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## Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | 2.92mm Female/2.92mm Female | |
| DC Bias | Solder Pin | |
| Size | 65*50*14(Without Heatsink)<br>100*50*64(With Heatsink) | mm |

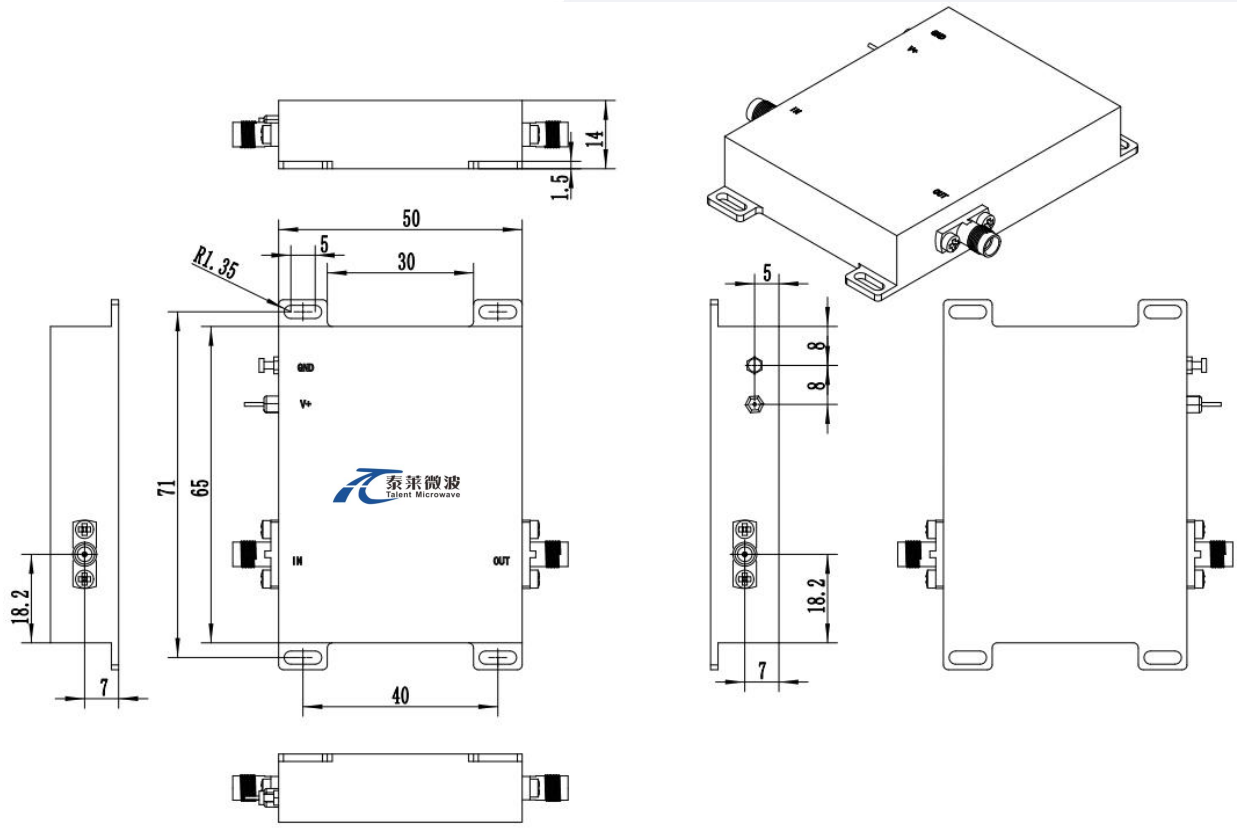
## Absolute Maximum Ratings:

| Parameter | Value |
|---|---|
| Supply Bias Voltage | TBD |
| RF Input Power | +5 dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

Simple 220V System
Available SAC option

## Outline Drawing:

Unit:mm



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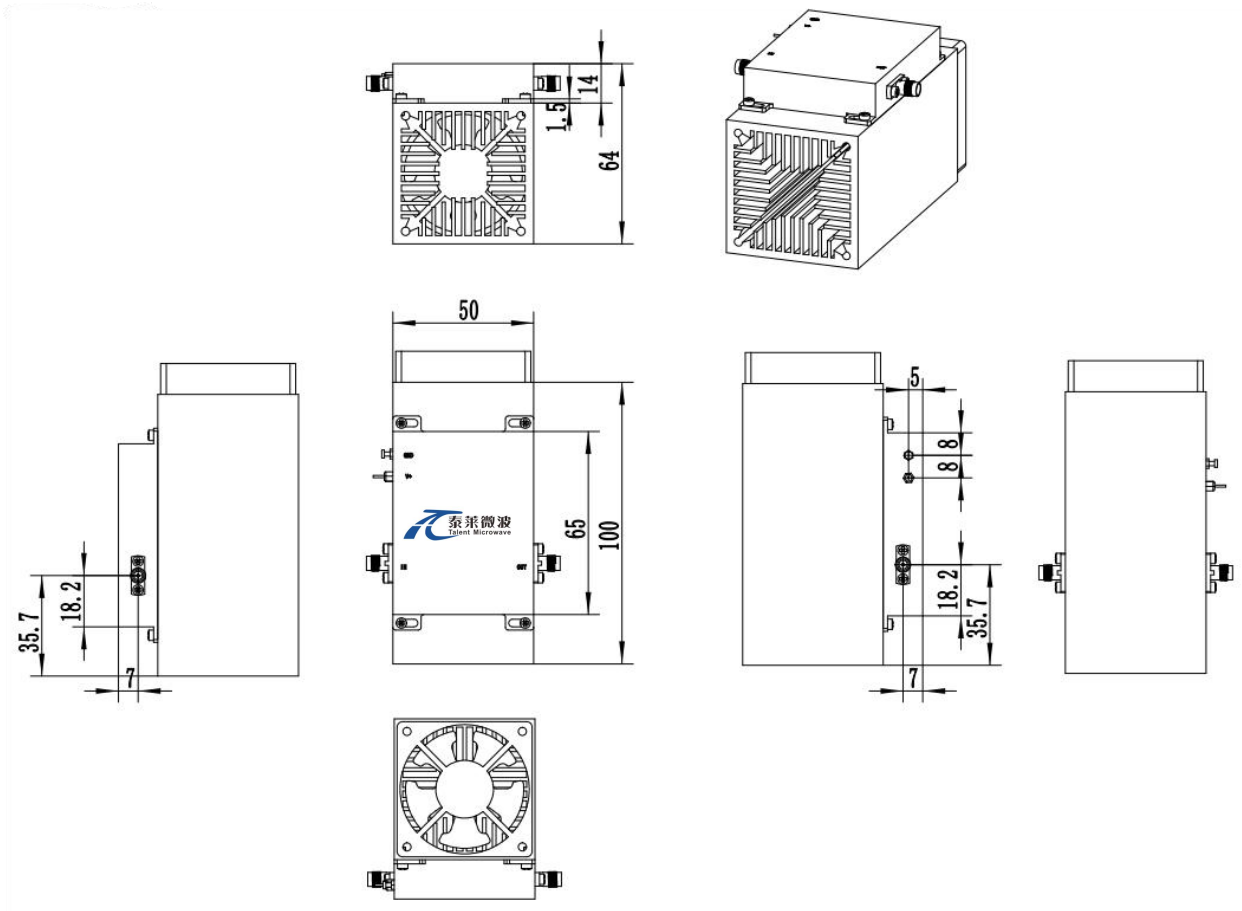


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## Environmental Conditions:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Operating Temperature* | -40 | | +60 | ℃ |
| Non-operating Temperature* | -50 | | +70 | ℃ |
| Relative humidity | | 95 | | % |
| Altitude | 10,000 | | | feet |
| Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

*Note: For a wider temperature range, please consult the manufacturer.

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## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TLPA26.5G40G-32-31 | Power amplifier 26.5-40GHz, Gain:32dB,Psat:31dBm,+12V DC,Without Heatsink | Rev.1.1 |
| TLPA26.5G40G-32-31-HS | Power amplifier 26.5-40GHz, Gain:32dB,Psat:31dBm,+12V DC,With Heatsink | Rev.1.1 |